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DEPARTMENT OF THE AIR FORCE
Headquarters 1st Combat Applications Group (TAC)
Eglin Air Force Base, Florida, 32542

1 AUG 1968

TAC Test Order: Evaluation of M24 Mask for UC-123

TAC Test Number: 68-1-T

CAG Project Number: 2P-18

AD 837

1. INTRODUCTION: A requirement has been stated by the USAF Special Operations Force (SOF) for a protective mask to be worn by crew members of UC-123 aircraft while conducting aerial spray operations. Toxicity of many spray agents dictate that protection be provided for the eyes, face and respiratory system. The mask must be light, comfortable, compatible with safety of flight and must not interfere with performance of crew duties. The M24 Protective Assembly will be evaluated to satisfy this requirement.

2. DESCRIPTION: The M24 Assembly consists of:

- a. The M24 Aircraft Protective Mask
 - (1) Small, FSN 4240-808-8799
 - (2) Medium, FSN 4240-776-4384
 - (3) Large, FSN 4240-808-8798
- b. M7 Protective Hood, FSN 4240-021-8695
- c. M1 Coupling Device, FSN 4240-300-6457
- d. M8 Oxygen Supply Adapters, FSN 4240-848-6074
- e. M10A1 Canisters, FSN 4240-127-7186

The mask was designed for use by US Army aircrewmembers during flight and away from the aircraft to provide respiratory protection against CB agents. It has a clear plastic mono-lens and is compatible with flight equipment. The mask utilizes a hose-connected M10A1 canister and incorporates an M16 dynamic microphone to make it compatible with radio systems in aircraft. The oxygen adapter permits use of this mask with the aircraft oxygen system. The hood is made from butyl-coated nylon cloth and provides head and neck protection when affixed to the M24 mask. Operation and maintenance instructions are contained in US Army Technical Manual TM3-4240-219-15.

3. PURPOSE: The objective of this project is to evaluate the comfort, compatibility with flight safety and interference with crew duty performance of the M24 Protective Assembly.

4. SCOPE: This project will encompass a subjective in-use evaluation by members of the 4408th Combat Crew Training Squadron while conducting simulated aerial spray operations.

5. STARTING DATE: 15 August 1968

6. COMPLETION DATE: 14 September 1968

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1 Atch
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